

32692
Customer Number

Patent
Case No.: 59407US010

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Kshirsagar, Tushar Ashok
Patent No.: 7888349 Application No.: 10/596895
Dated: 15-FEB-2011 Confirmation No. 1940
Title: PIPERAZINE, [1,4]DIAZEPANE, [1,4]DIAZOCANE, AND [1,5]DIAZOCANE
FUSED IMIDAZO RING COMPOUNDS

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR § 1.322 AND 1.323

Commissioner for Patents
Office of Publication
Attn: Certificate of Correction Branch
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR § 1.8(a)]

I hereby certify that this correspondence is being:

- ☒ transmitted to United States Patent and Trademark Office on the date shown below via the Office electronic filing system.
☐ deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
☐ transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at 571-273-8300.

October 3, 2011
Date

/Joyce M. Courtney/
Signed by: Joyce M. Courtney

Dear Sir:

It is respectfully requested that a Certificate of Correction be issued in connection with the above-identified patent. The required text is submitted on the attached form.

The errors are attributable to both the Applicant(s) and the Patent and Trademark Office.

Fees

- ☒ Any required fee will be made at the time of submission via EFS-Web. In the event fees are not or cannot be paid at the time of EFS-Web submission, please charge any fees under 37 CFR § 1.20(a) which may be required to Deposit Account No. 13-3723.
- ☐ Please charge any fees under 37 CFR §§ 1.20(a), 1.16 and 1.17 which may be required to Deposit Account No. 13-3723.
- ☒ Please charge any additional fees associated with the prosecution of this application to Deposit Account No. 13-3723. This authorization includes the fee for any necessary extension of time under 37 CFR § 1.136(a). To the extent any such extension should become necessary, it is hereby requested.
- ☒ Please credit any overpayment to the same deposit account.

Respectfully submitted,

September 25, 2011

Date

Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

By: /Ted K. Ringsred/

Ted K. Ringsred, Reg. No.: 35,658

Telephone No.: 651-736-5839

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 1 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 4

Line 46, delete " $-(R_6)-$ " and insert $- - C(R_6)-$, therefor.

Line 63, delete "heteroarylalkylenyl" and insert --heteroarylalkylenyl--, therefor.

Column 5

Lines 6-7, delete "methylenedioxy," and insert $- -$ methylenedioxy; $- -$, therefor.

Line 12, delete "group-consisting" and insert $- -$ group consisting $- -$, therefor.

Line 37, delete " R_{B1} ," and insert $- - R_{B1} - -$, therefor.

Line 41, below "halogen," insert $- -$ alkyl, $- -$.

Column 6

Lines 21-22, delete "methyleneoxy; fuirther" and insert $- -$ methylenedioxy; further $- -$, therefor.

Column 8

Line 67, delete "thereof" and insert $- -$ thereof. $- -$, therefor.

Column 11

Line 7, after "and" insert $- - N(R_4)-$; $- -$.

Line 11, delete " $-C(R_8)-$ " and insert $- - C(R_6)-$, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

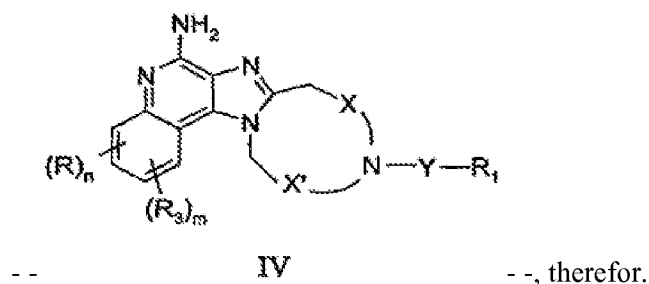
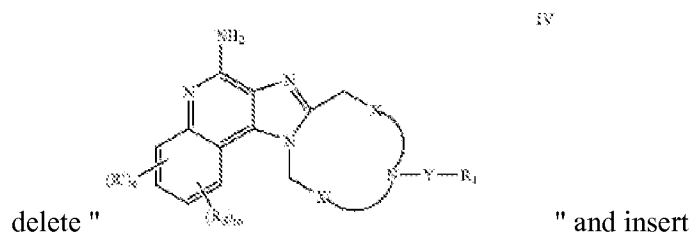
UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 2 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Lines 26-38,



Column 19

Line 32, delete "substituent." and insert -- substituent. --, therefor.

Lines 42-43, delete "--X'-Y'-X'--" and insert -- --X"--Y"--X"--, therefor.

Column 20

Line 1, delete "I-VU" and insert -- I-VII --, therefor.

Line 11, delete "heteroatom:" and insert -- heteroatom --, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 3 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21

Line 47, delete "(O)" and insert - - C(O) - -, therefor.

Column 22

Line 62, delete "allylarylenyl," and insert - - alkylarylenyl, - -, therefor.

Column 24

Lines 12-13, delete "irnmunomodulator" and insert - - immunomodulator - -, therefor.

Column 26

Line 45, delete "R₁S(O)₂Cl" and insert - - R₁S(O)₂Cl, - -, therefor.
Line 49, delete "R₁S(O)₂Cl" and insert - - R₁S(O)₂Cl, - -, therefor.

Column 30

Line 36, delete "XXII," and insert - - XXIII, - -, therefor.

Column 32

Line 26, delete "XX." and insert - - XXXI. - -, therefor.
Line 27, delete "X," and insert - - XXXI, - -, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 4 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 33

Line 22, delete "X'," and insert - - X", - -, therefor.
Line 24, delete "XXXIII" and insert - - XXXII - -, therefor.
Lines 34-35, delete "X Iundergoes" and insert - - XXXIII undergoes - -, therefor.
Line 62, delete "XVIII." and insert - - XXXVII. - -, therefor.

Column 34

Line 40, delete "XXVII" and insert - - XXXVII - -, therefor.

Column 35

Line 27, delete "X'—" and insert - - X"— - -, therefor.

Column 36

Line 31, delete "tetrahydrofliran" and insert - - tetrahydrofuran - -, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0-
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 5 of 14

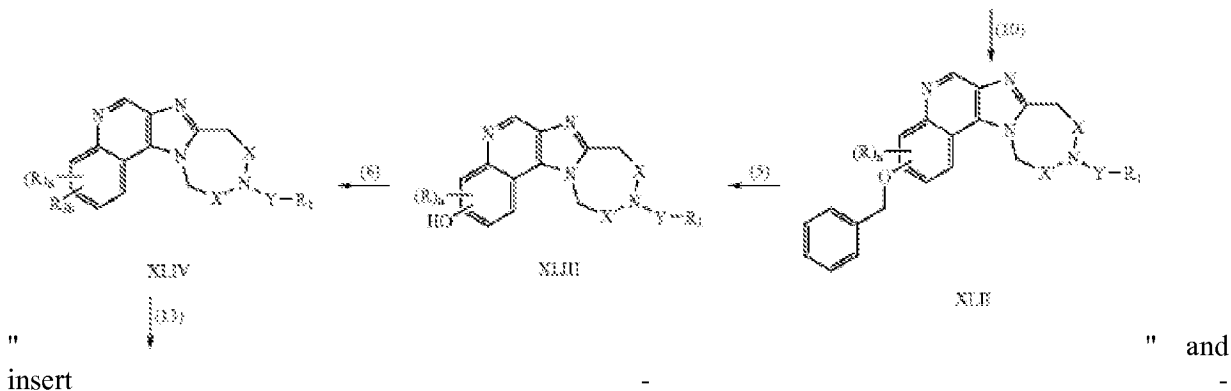
PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

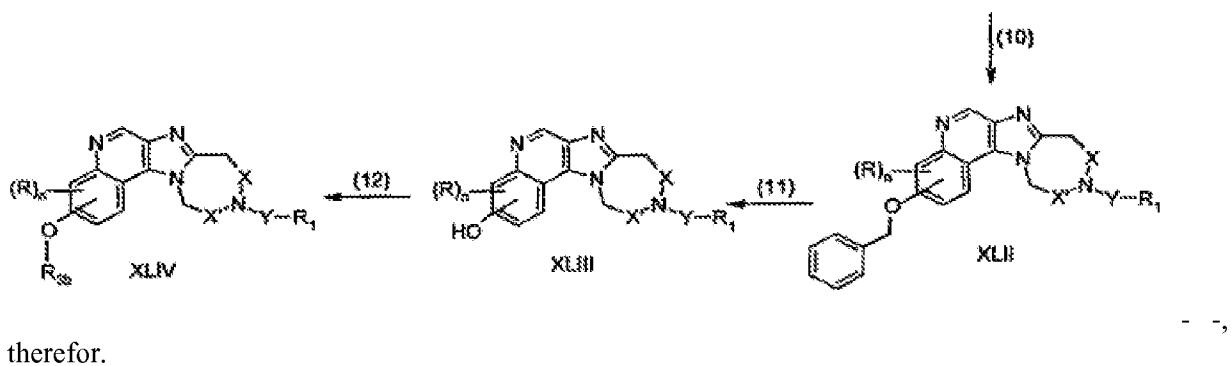
Columns 37-38

Line 3,

delete



insert



MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

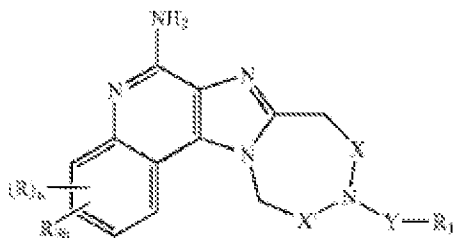
Page 6 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

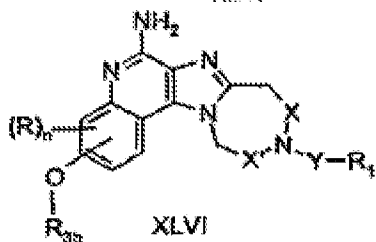
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Line 4,

delete



" XLV " and insert - -



- -, therefor.

Column 37

Line 60, delete "XLVI" and insert - - XLVIII - -, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 7 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 42

Line 60, delete "LVII" and insert - - LVIII - -, therefor.

Column 44

Line 61, delete "hetereogeneous" and insert - - heterogeneous - -, therefor.

Column 45

Lines 27-28, delete "[1,5]naphthyridin" and insert - - quinolin - -, therefor.

Line 67, delete "substitued" and insert - - substituted - -, therefor.

Column 47

Lines 55-56, delete "hepadnavirns" and insert - - hepadnavirus - -, therefor.

Column 48

Line 4, delete "carnii" and insert - - carinii - -, therefor.

Line 11, delete "myelogeous" and insert - - myelogenous - -, therefor.

Line 19, delete "thrombocythaemia," and insert --thrombocythemia,--, therefor.

Line 38, delete "hemophilus" and insert - - haemophilus - -, therefor.

Column 50

Line 53, delete "carbatnate" and insert - - carbamate - -, therefor.

Line 61, delete "mmmol)" and insert - - mmol) - -, therefor.

Line 64, delete "and," and insert - - and - -, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 8 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 54

Line 48, delete "iridazo" and insert - - imidazo - -, therefor.

Line 66, delete "N." and insert - - N, - -, therefor.

Column 57

Line 66, delete "amnino" and insert - - amino - -, therefor.

Column 58

Line 26, delete "mnL)." and insert - - mL). - -, therefor.

Column 93

Line 32, delete "(32.2" and insert - - (32.3 - -, therefor.

Columns 95-69

Line 8, delete "imidazolecarboxaldehyde" and insert --imidazolecarboxaldehyde--, therefor.

Column 113

Line 40, delete "NN" and insert - - N,N - -, therefor.

Columns 127-128

Line 6, after "Butylbenzoyl" insert - - chloride - -.

Columns 129-130

Line 8, delete "Dichlorobenzo" and insert - - Dichlorobenzoyl - -, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 9 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Columns 133-134

Line 7, delete "Thiosulfonyl" and insert - - Thiophenesulfonyl - -, therefor.

Column 153

Line 56, after "mol" insert - - in - -.

Column 154

Line 58, delete "amnino" and insert - - amino - -, therefor.

Column 155

Line 8, delete "(1 L)" and insert - - (1 mL) - -, therefor.

Column 166

Line 34, delete "CELITE" and insert - - CELITE - -, therefor.

Column 167

Line 27, delete "dichlormethane" and insert - - dichloromethane - -, therefor.

Line 43, delete "dichlormethane" and insert - - dichloromethane - -, therefor.

Lines 50-51, delete "naphthyridin" and insert - - naphthyridine - -, therefor.

Column 169

Line 57, delete "-etrahydro" and insert - - -tetrahydro - -, therefor.

Column 171

Line 44, delete "quinohne" and insert - - quinoline - -, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 10 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 173

Line 3, delete "1H)" and insert - - 1H), - -, therefor.

Column 174

Line 64, delete "p-toluenesulfnyl" and insert - - p-toluenesulfonyl - -, therefor.

Column 178

Line 5, delete "n-pronanol" and insert - - n-propanol - -, therefor.

Line 45, delete "Sarnple" and insert - - Sample - -, therefor.

Line 53, delete "HHLC" and insert - - HPLC - -, therefor.

Columns 181-182

Line 12, delete "pyrzoled" and insert - - pyrazole - -, therefor.

Columns 193-194

Line 13, delete "Dimehylthiocarbamoyl" and insert --Dimethylthiocarbamoyl--, therefor.

Column 210

Line 11, delete "Example" and insert - - Examples - -, therefor.

Columns 209-210

Line 17, delete "Isovaleraldehyde" and insert - - Isovaleraldehyde - -, therefor.

Column 215

Line 26, delete "[1 α ," and insert - - [1', - -, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

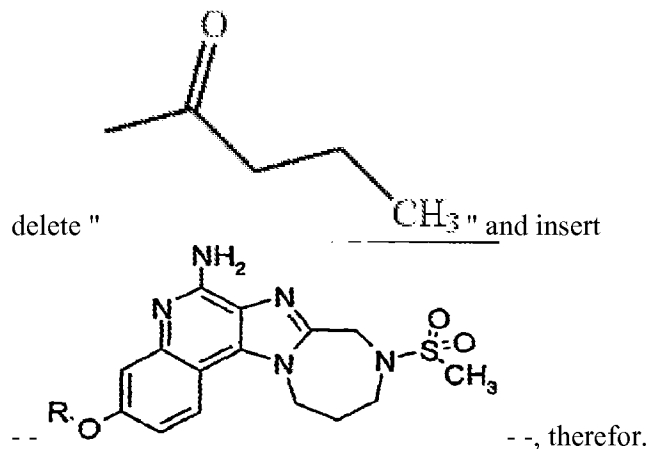
Page 11 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Columns 215-216

Line 41,



Column 218

Line 66, delete "(10 B)" and insert -- (10H) --, therefor.

Column 219

Line 9, delete "ml)." and insert -- mL). --, therefor.

MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

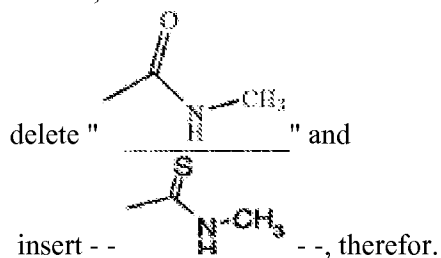
Page 12 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

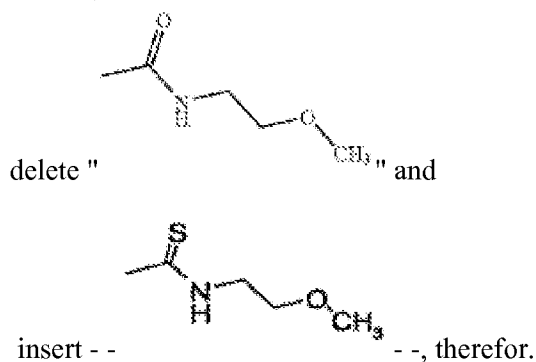
Columns 233-234

Line 9,



Columns 235-236

Line 9,



MAILING ADDRESS OF SENDER:

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

PATENT NO. 7888349

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 13 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 266

Line 5, delete "difluoropropane" and insert - - difluoropropane - -, therefor.

Column 268

Line 9, delete "Lipopolysaccaride" and insert - - Lipopolysaccharide - -, therefor.

Line 44, delete "Lipopolysaccaride" and insert - - Lipopolysaccharide - -,

Line 44, delete "typhimuriumn," and insert - - typhimurium, - -, therefor.

Column 269

Line 27, in Claim 1, delete " $-(CH_2)_2-$ " and insert - - $-(CH_2)_2-$; - -, therefor.

Lines 34-35, in Claim 1, delete " $-C(R_6)-O-$, $-C(R_6)-N(R_8)-$," and insert -
- $-C(R_6)-O-$, $-C(R_6)-N(R_8)-$, - -, therefor.

Column 271

Line 11, in Claim 1, delete "alkylene;" and insert - - alkylene; - -, therefor.

Line 13, in Claim 1, delete "alkoxy- C_1 " and insert - - alkoxy- C_{1-10} - -, therefor.

Line 67, in Claim 5, delete "alkenyl, alkenyl," and insert - - alkenyl, alkynyl, - -,
therefor.

Column 272

Line 2, in Claim 5, delete "alkylheteroaryienyl," and insert --alkylheteroarylenyl,--,
therefor.

Lines 14-15, in Claim 5, delete "alkenyl, alkenyl," and insert --alkenyl, alkynyl,--,
therefor.

MAILING ADDRESS OF SENDER:

PATENT NO. 7888349

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 14 of 14

PATENT NO.: 7888349
DATED: 15-FEB-2011
FIRST NAMED INVENTOR: Kshirsagar, Tushar Ashok

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 274

Line 37, in Claim 6, delete "alkenyl, alkenyl," and insert --alkenyl, alkynyl--, therefor.

Line 40, in Claim 6, delete "alkenyl, alkenyl," and insert --alkenyl, alkynyl--, therefor.

Lines 51-52, in Claim 6, delete "alkenyl, alkenyl," and insert alkenyl, alkynyl--, therefor.

Column 276

Line 25, in Claim 6, delete "C₁₀" and insert - - C₁₋₁₀ - -, therefor.

Line 38, in Claim 6, delete "—S(O)₂;" and insert - - —S(O)₂—; - -, therefor.

Line 50, in Claim 9, delete "C(O)—," and insert - - —C(O)—, - -, therefor.

Line 52, in Claim 10, delete "—S(O)₂," and insert - - —S(O)₂—, - -, therefor.

MAILING ADDRESS OF SENDER:

PATENT NO. 7888349

**OFFICE OF INTELLECTUAL PROPERTY COUNSEL
3M INNOVATIVE PROPERTIES COMPANY
3M CENTER - P.O. BOX 33427
SAINT PAUL, MINNESOTA 55133-3427**

No. of add'l copies: - 0 -
@ 50¢ per page

No add'l copies